

Checklist #2

Construction Site Erosion Control Plan (>1 Acre)

Under county ordinance, significant grading activity may trigger the need for a construction site erosion control permit. An erosion control permit is designed to protect downstream water resources and property owners from water pollution and other damage caused by sediment laden runoff from construction sites. To obtain an erosion control permit, an erosion control plan is required. This checklist shows what information is needed and what issues need to be addressed when preparing a site development/erosion control plan for a large construction site. **Not all items listed may be applicable to each site, nor is the list all-inclusive.** It is meant to serve as a guide to preparing the plan. Using this form, and following adopted technical standards, will help you prevent unnecessary delays or additional costs in plan reviews. When requesting a "Preliminary Review Letter" on an erosion control plan, the planner should submit enough of the information listed below to allow for adequate preliminary technical review of the plans. Please refer to checklists #1 and #3, for other items related to general site conditions, the proposed development and plans to manage stormwater runoff from the site after development is complete.

Delineate and Label On Maps (1" equals 100') & Drawings:

- ___ North arrow, graphic scale, drafting date/version and designation of source documents for all map features;
- ___ Proposed building envelopes and other land area to be disturbed and size (*in acres*).
- ___ Major trees (>8") or woodlands that are proposed to be lost during construction.
- ___ Temporary access drive and specified surface material (*2" stone, grates, etc.*) to reduce mud tracked on roadway during construction.
- ___ Temporary flow diversion devices for upslope or roof runoff until site is stabilized (*channel/berm, catch basin, silt fence, downspout extenders, etc.*).
- ___ Temporary sediment trapping devices for site perimeter and inlets to culverts & storm drains (*silt fence, baskets, straw bales, sediment basins/traps, etc.*).
- ___ Temporary settling basin for site dewatering (pumped) during utility/subsurface work.
- ___ Temporary soil stockpile sites (*ensure setbacks from water/channels*) and erosion protection methods (*covers, seeding, perimeter silt fence, etc.*).
- ___ Specified topsoil application depth (*4" minimum*).
- ___ Detailed drawings/cross-sections for any sediment traps or basins.
- ___ Location of proposed utilities and associated easements.
- ___ Final site stabilization plans for all disturbed areas, cut/fill slopes, and open channels (*seed/mulch/netting/matting/sod/etc.*).
- ___ Final erosion protection for inlets/outlets, culverts/pipes & spillways (*rock riprap, etc.*).
- ___ Cross-sections for major cut/fill areas, showing side slopes and elevations.

Provide Supporting Information:

- ___ Plan narrative describing estimated starting date of grading and timing/sequence of construction, any construction stages/phases and the installation, use and maintenance of best management practices proposed in the plan.
- ___ Open channel design and stabilization data (*look-up charts, velocity calcs., etc.*).
- ___ Summary of design data for sediment basins.
- ___ Estimated time soil stockpiles will exist.
- ___ Specified seeding mixture(s), fertilizer, rates of application and maintenance until grass or other plants are well established.
- ___ Plans for refuse disposal and site stabilization for old dumps, demolition work, etc.
- ___ Plans for utility installation, including timing, placement and site restoration duties.
- ___ Estimated completion date of final grading/topsoiling/seeding/stabilization plans.

Sample Reviewer Questions (Yes, No or Not Applicable):

- ___ Does the proposal fit the terrain of the site, minimizing impacts on steep slopes, shorelands, environmental corridors and other high risk/sensitive areas?
- ___ Does the development plan minimize the loss of trees and other natural vegetation?
- ___ Are proposed cut and fill slopes minimized (*usually maximum of 3h:1v*) ?
- ___ Does the proposed construction schedule minimize the time and area of land exposed to soil erosion through project phasing and construction sequencing?
- ___ Does the proposed schedule recognize deadlines for cool season grass seeding (Sept. 15), temporary seeding (Oct. 15), sodding and dormant seeding (November)?
- ___ Does the schedule meet the requirement for site stabilization within 7 working days after final grading? (Does it need temporary mulch/seed during an inactive period?)
- ___ Are utility installation plans realistic? Should the utilities be relocated to prevent disturbance of newly seeded/stabilized channels?
- ___ Does the schedule and plan recognize the special watering needs if trying to establish cool season grasses during mid Summer or higher seed rates for dormant applications?
- ___ Do channel stabilization plans meet adopted standards based on flow velocities produced by a 10 year, 24 hour storm? (*see look-up charts*)
- ___ Do cut/fill slope stabilization plans meet adopted standards based on slope and slope length? (*see figure for selecting netting, matting, sod, diversion, etc.*)
- ___ Are plans adequate for protecting pipe outfalls, etc.? (*6' sod pads at road culvert outfalls, rock rip rap at basin inlets/outfalls/spillways/stilling basins*).
- ___ Is proposed silt fence appropriate for the drainage area as per standards? (*.25 acres/100 ft. for overland flow or maximum of 2 acres at inlets or channels*)
- ___ Are the ends of the silt fence shown wrapped up hill? (*2-3' in elevation*)
- ___ Are drainage areas to proposed sediment traps within the 5 acre limit?
- ___ Do proposed sediment basins meet design standards?
- ___ Will sediment basins serve as a permanent stormwater management facility after construction? If so, do plans allow for additional sediment accumulation or removal?
- ___ Is access drive designed to prevent wash out? (*side swales, diversions, etc.*)
- ___ Will the plans adequately control sediment from soil stockpiles? (*exposed >7 days - silt fence/buffer, >30 days - cover, temporary seed/mulch, etc.*)
- ___ Are measures needed to minimize wind erosion during construction? (*large sites with sandy soils - watering, mulch, tacking agent, etc. to protect nearby residences/water resources*)

Note: A similar form may be sent to you by the plan reviewer to indicate missing items.